Qty:

Date: User:

Wednesday, 3/26/2008 12:49:42 PM

Kim Johnston

Process Sheet

Drawing Name

Part Number

Material

Due Date

Drawing Number

Project Number

Drawing Revision

: 1-MAN 3-POINT LH SHOULDER HARNESS KIT

: D412702051B

· DSI 9397

: 4/2/2008

: N/A

: A

Job Number : 38207

: 13079 **Estimate Number**

P.O. Number This Issue

Customer.

: 3/26/2008

S.O. No. :

: NC Prsht Rev.

: // First Issue

: 36099 **Previous Run**

Written By Checked & Approved By Comment

Type

: CU-DAR001 Dart Helicopters Services

: Est Rev:A

new issue ECN 1070 07-12-03 DD verified

: SMALL /MED FAB

by:ec

Additional Product

Job Number:



Seg. #: ... 1.0 DC

Machine Or Operation:

Description: DOCUMENT CONTROL

in insule 34 A 44

Comment: DOCUMENT CONTROL

Photocopy bluefile & type labels per PPP D412-702-051B CHG001

D412702107B HARNESS ASSEMBLY

Comment: Qty.: 1.0000 Each(s)/Unit 1.0000 Each(s) Total:

HARNESS ASSEMBLY BATCH: 7 8 22 6

D35421

BRACKET

Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

BRACKET

Batch

GUIDE

Comment: Qty.: 1.0000 Each(s)/Unit Total:

1.0000 Each(s)

GUIDE Batch

D3610041

Comment: Qty.:

1.0000 Each(s)/Unit Total: 1.0000 Each(s)

BRACKET 238087

Each

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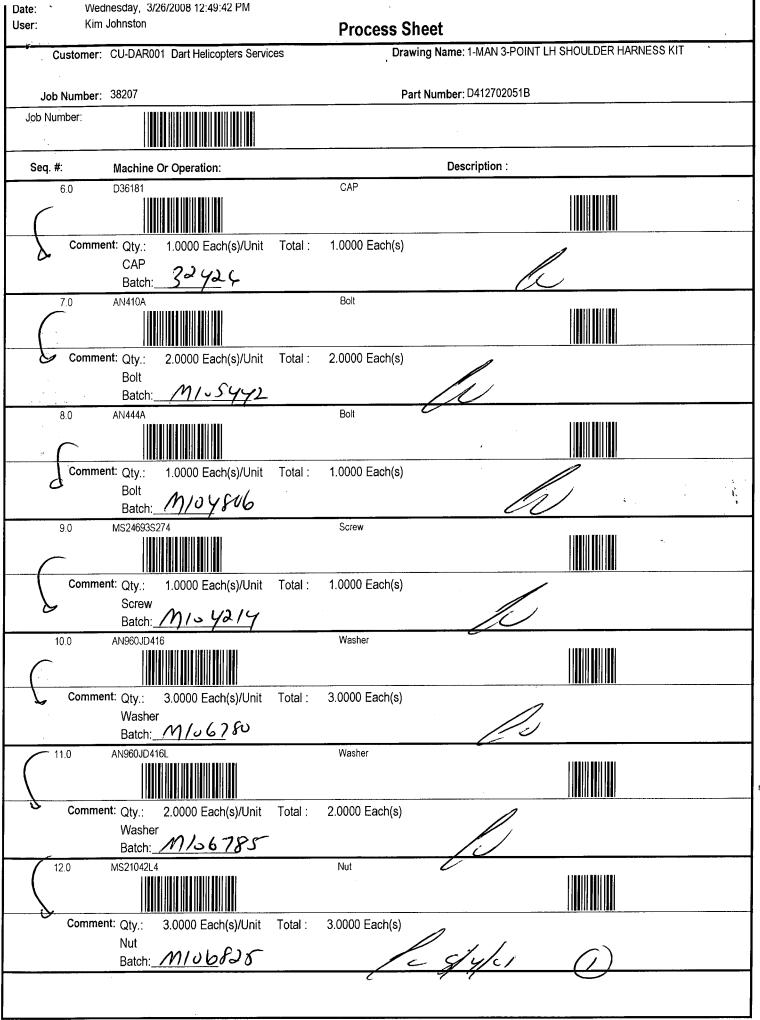
08,03.26

Dart Aerospace Ltd

W/O:		WORK ORDER CH	ANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
Part No		PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date: _	
			QA:	N/C Close	d:	_ Date: _	

	NCR:		,	WORK ORD	ER NON-CONFORMANO	E (NCR)			
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	DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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NOTE: Date & initial all entries



Dart Aerospace Ltd

W/O:		WORK ORDER CHANGE	S				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	·	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:	
			QA:	N/C Close	d:	Date: _	

NCR:			WORK ORDE	ER NON-CONFORMAN	CE (NCR)			
		Description of NC		Corrective Action Section E	<u> </u>	Verification	Approval	Approval
DATE ST	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto

NOTE: Date & initial all entries

Wednesday, 3/26/2008 12:49:42 PM Date: Kim Johnston User: **Process Sheet** Drawing Name: 1-MAN 3-POINT LH SHOULDER HARNESS KIT Customer: CU-DAR001 Dart Helicopters Services Part Number: D412702051B Job Number: 38207 Job Number: Description: Seq. #: Machine Or Operation: INSPECT 100% KITS FOR COMPLETENESS 13.0 QC4 Comment: INSPECT 100% KITS FOR COMPLETENESS PACKAGING RESOURCE #1 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and pack for shipping as per PPP D412-702-051B CHG001 Location: PPP Rev: FINAL INSPECTION/W/O RELEASE 15.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE 08-04-02 Job Completion

Dart Ae	rospace	e Ltd							
W/O:	,		W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	A:	Date:	
					QA: N	/C Close	d:	_ Date: _	
NCR:			WORK ORE	ER NON-CONFORMA	NCE (NCR	2)			
		Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		ion C	Chief Eng	QC Inspector

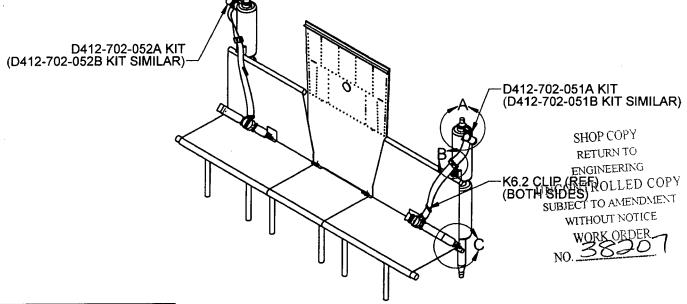
NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E
& INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3
REF TC STC SH04-7 & FAA STC SR01997NY

D412-702-051A/-051B/-052A/-052B 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. Install as follows. The parts list is provided on sheet 3. The D412-702-051A/-051B/-052A/-052B kits should be maintained per ICA-D412-702 as applicable.

- 1) Remove existing lap belt and/or shoulder harness installations from the outboard seats of the 5-man forward facing bench per the applicable maintenance manual or ICA. If the Dart D412-702-011/-021/-013/-023 shoulder harness kits are already installed, do not remove the D3195-043 brackets from the stanchion posts. Refer to Detail B of *Figure 1*. Ensure that the D3268-1 placard is not removed from the aircraft.
- 2) Disconnect the tops of the aircraft stanchion posts from the aircraft roof per the Aircraft Maintenance Manual. It may be necessary to disconnect the bases of the posts as well.
- 3) Position a D3542-1 bracket over the top of each post as shown in *Figure 1*, *Detail A*. Install the D412-702-107A/-107B harness assembly on the bracket on the LH stanchion post at a forward angle of 45° using the hardware shown in *Detail A*. Install the D412-702-109A/-109B on the bracket on the RH stanchion post at a forward angle of 45°.
- 4) Remove the OEM 205-070-742-001 blocks from behind the OEM 205-070-743-001 supports and discard the fasteners. Install the D3610-041 bracket and D3571-3 guide with the D3618-1 cap on each post as shown in *Detail B*. Trim the D3618-1 cap as needed to fit. Torque the AN4 bolts to 50-70 in-lbs (5.6-7.9 N-m).
- 5) Feed the shoulder belts through the guides so that the K6.2 clips are between the guides and the buckles as shown in *Figure 1*. Clip the lap belts and buckles onto the OEM seat belt rings as shown in *Detail C* and engage the belts in the buckles. Orient the harness assemblies and the D3571 guides so that the shoulder belts have a straight path to the buckles as shown in *Figure 1*. Torque the #10 fasteners to 20-25 in-lbs (2.3-2.8 N-m). Ensure that the that the D3569-1/-2/-3 decals on the buckles face outward.
- 6) At the customer's option, secure the end fittings of the lap belts using MS20995C41 lockwire per AC43.13-1B Chapter 7 Section 7 or install an MS24665 cotter pin.



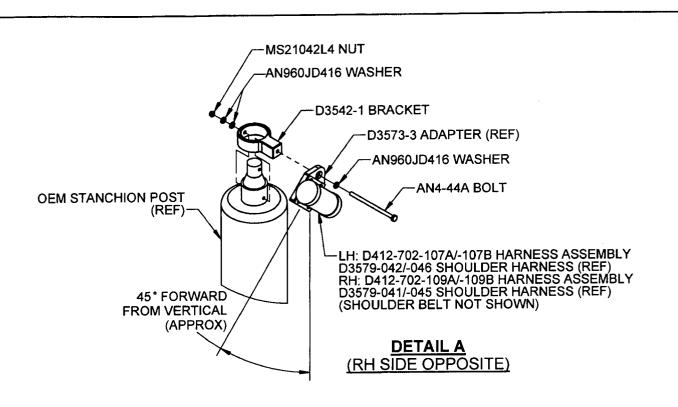
CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01

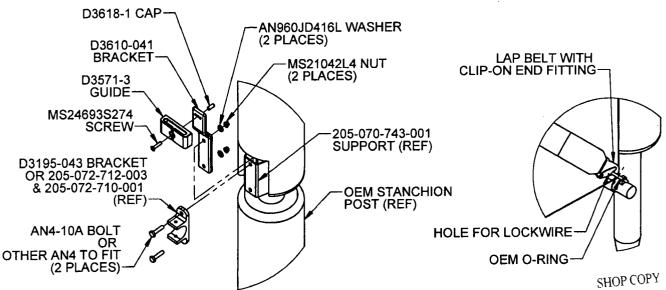
BY: D. SHEPHERD (DE # 02)

DATE: 07.11.21 CERT. NO.: SH04-7 ISSUE NO.: 3

FIGURE 1. D412-702-051A/-051B/-052A/-052B INSTALLATION

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DATE	07.1	1.21	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMPLED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			





<u>DETAIL B</u> (RH SIDE OPPOSITE) ENOPCOLT

DETAILE CIRN TO

(RH SIDE OPPOSITE)

UNCONTROLLED

COPY

SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORK ORDER 7

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 07.11.21
CERT. NO.: SH04-7
ISSUE NO.: 3

DESIGN	LE.	DART AEROSPACE LTD			
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DATE 07.1	1.21	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

X	QTY -051A	QTY -052A	QTY -051B	QTY -052B	Part Number	Description
X	Х				D412-702-051A	1-Man 3-Point LH Shoulder Harness Kit
X D412-702-052B		×			D412-702-052A	1-Man 3-Point RH Shoulder Harness Kit
D412-702-107A			х		D412-702-051B	1-Man 3-Point LH Shoulder Harness Kit
D3573-3				Х	D412-702-052B	1-Man 3-Point RH Shoulder Harness Kit
D3573-3	1				D412-702-107A	HARNESS ASSEMBLY
D3579-042 SHOULDER HARNESS K6.2 CLIP	1*					
MS24693S272 SCREW AN960JD10LL WASHER MS21042L3 NUT D412-702-109A HARNESS ASSEMBLY 1* D3573-3 ADAPTER 1* D3579-041 SHOULDER HARNESS 1* K6.2 CLIP 4* MS24693S272 SCREW 4* AN960JD10LL WASHER 1* D3573-3 ADAPTER 1* D3573-3 ADAPTER 1* D3573-3 ADAPTER 1* D3573-3 ADAPTER 1* D3579-046 SHOULDER HARNESS 1* K6.2 CLIP 4* MS24693S272 SCREW 4* MS21042L3 NUT 1 D412-702-109B HARNESS ASSEMBLY 4* MS21042L3 NUT 1 D412-702-109B HARNESS ASSEMBLY 1* D3573-3 ADAPTER 1* D3579-045 SHOULDER HARNESS 1* K6.2 CLIP 4* MS24693S272 SCREW 4* MS24693S272 SCREW 4* MS21042L3 NUT 1 D3579-045 SHOULDER HARNESS 1* K6.2 CLIP 1* K6.2 CLIP 1* K6.2 CLIP 1* MS24693S273 SCREW 4* MS21042L3 NUT 1 1 1 D3571-3 GUIDE R 1 1 1 D3610-041 BRACKET EN 1 1 1 D3610-041 BRACKET EN 1 1 1 D3610-041 BRACKET EN 1 1 1 MS24693S274 SCREW 1 1 1 MS24693S274	1*				D3579-042	SHOULDER HARNESS
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4* AN960JD10LL WASHER 4* MS21042L3 NUT 1 1 1 D3542-1 BRACKET SH 1 1 1 D3571-3 GUIDE R 1 1 1 D3610-041 BRACKET EN 1 1 1 D3618-1 CAP UNCON' 2 2 2 AN4-10A BOLT SUBJEC 1 1 1 AN4-44A BOLT SUBJEC 1 1 1 MS24693S274 SCREW WIT 3 3 3 AN960JD416 WASHER WO 2 2 2 AN960JD416L WASHER NO				1*	K6.2	CLIP
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1 1 1 D3542-1 BRACKET 1 1 1 D3571-3 GUIDE 1 1 1 D3610-041 BRACKET 1 1 1 D3618-1 CAP 2 2 2 AN4-10A BOLT 1 1 1 AN4-44A BOLT 1 1 1 MS24693S274 SCREW 3 3 3 AN960JD416 WASHER WASHER				4*	AN960JD10LL	WASHER
1 1 1 D3571-3 GUIDE R 1 1 1 D3610-041 BRACKET EN 1 1 1 D3618-1 CAP UNCON' 2 2 2 AN4-10A BOLT SUBJEC 1 1 1 AN4-44A BOLT SUBJEC 1 1 1 MS24693S274 SCREW WIT 3 3 3 AN960JD416 WASHER WO 2 2 2 AN960JD416L WASHER NO				4*	MS21042L3	NUT
1 1 1 D3571-3 GUIDE 1 1 1 D3610-041 BRACKET EN 1 1 1 D3618-1 CAP UNCON' 2 2 2 AN4-10A BOLT UNCON' 1 1 1 AN4-44A BOLT SUBJEC' 1 1 1 MS24693S274 SCREW WIT 3 3 3 AN960JD416 WASHER WO 2 2 2 AN960JD416L WASHER NO	1	1	1	1	D3542-1	BRACKET SHO
1 1 1 D3610-041 BRACKET 1 1 1 D3618-1 CAP 2 2 2 AN4-10A BOLT UNCON 1 1 1 AN4-44A BOLT SUBJECT 1 1 1 MS24693S274 SCREW WIT 3 3 3 AN960JD416 WASHER WOLL 2 2 2 AN960JD416L WASHER NOLL	1	1	1	1	D3571-3	GUIDE RE
1 1 1 D3618-1 CAP 2 2 2 AN4-10A BOLT UNCON' 1 1 1 AN4-44A BOLT SUBJECT 1 1 1 MS24693S274 SCREW 3 3 3 AN960JD416 WASHER WATER 2 2 2 AN960JD416L WASHER	1	1	1	1	D3610-041	BRACKET
1 1 1 AN4-44A BOLT SUBJECT 1 1 1 MS24693S274 SCREW 3 3 3 AN960JD416 WASHER 2 2 2 AN960JD416L WASHER	1	1	1	1	D3618-1	CAP
1 1 1 MS24693S274 SCREW 3 3 3 AN960JD416 WASHER 2 2 2 AN960JD416L WASHER	2	2	2	2	AN4-10A	BOLT
1	1	1	11	1	AN4-44A	BOLT SUBJECT
Z Z Z AN960JD416L WASHER	1	1	1	1	MS24693S274	SCREW
Z Z Z AN960JD416L WASHER	3		3	3	AN960JD416	WASHER
3 3 MS21042L4 NUT	2	2	2		AN960JD416L	WASHER NO.
	3	3	3	3	MS21042L4	NUT

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 07.11.21
CERT. NO.: SH04-7
ISSUE NO.: 3

*Denotes that part is included with assembly above

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DE APPR.	-#	SHOULDER HARNESS KITS NTS			
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